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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,757	03/20/2002	Bernard Aspar	2541-000011	2780
;	7590 05/06/2003			
Harness Dickey & Pierce			EXAMINER	
P O Box 828 Bloomfield Hi	IIs, MI 48303		SCHILLINGER, LAURA M	
			ART UNIT	PAPER NUMBER
			2813	

DATE MAILED: 05/06/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	A cant(s)				
	10/018,757	ASPAR ET AL.	I			
Office Action Summary	Examin r	Art Unit				
	Laura M Schillinger	2813				
The MAILING DATE of this communication app Period for Reply	ears on the cover shee	with th correspondenc address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period vortice to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, many within the statutory minimum of will apply and will expire SIX (6) Notes the application to become	v a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communications ABANDONED (35 U.S.C. § 133).	in.			
1) Responsive to communication(s) filed on 09 A	April 2002 .					
2a) This action is <b>FINAL</b> . 2b) ⊠ Th	is action is non-final.					
3) Since this application is in condition for allowated closed in accordance with the practice under			is			
Disposition of Claims	Ex parte Quayre, 1000	O.B. 11, 400 O.G. 210.				
4) $\boxtimes$ Claim(s) <u>21-40</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdrav	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>21-40</u> is/are rejected. —						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o Application Papers	r election requirement.					
9) The specification is objected to by the Examine	r					
10) ☐ The drawing(s) filed on is/are: a) ☐ accept		ov the Examiner.				
Applicant may not request that any objection to the						
11) The proposed drawing correction filed on	_	_				
If approved, corrected drawings are required in re	oly to this Office action.					
12)☐ The oath or declaration is objected to by the Ex	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreigr	priority under 35 U.S.	C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
<ol> <li>Certified copies of the priority document</li> </ol>	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3.⊠ Copies of the certified copies of the prior application from the International Bu * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a	)).				
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S	C. § 119(e) (to a provisional application	tion).			
a) ☐ The translation of the foreign language pro						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 8	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)				



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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 21-40 are rejected under 35 U.S.C. 102(e) as being anticipated by Usenko et al (\*829).

In reference to claim 21, Usenko teaches a process comprising:

The implantation of gaseous compounds in the substrate to make a layer of micro-cavities at a depth form the plane face corresponding to the thickness of the required thin film, the gaseous compounds being implanted under conditions that could weaken the substrate at the layer of micro-cavities (Col.4, lines: 1-25 and Col.2, lines: 40-50); and

Partial or total separation of the thin film from the rest of the substrate, this separation comprising a step in which thermal energy is added and pressure is applied to the plane face (Col.2, lines: 50-65).

In reference to claim 22, Usenko teaches wherein the pressure is a gas pressure (Abs., lines: 1-15).

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In reference to claim 23, Usenko teaches wherein the pressure is a mechanical pressure (Abs.,

lines: 1-15).

In reference to claim 24, Usenko teaches wherein the mechanical pressure is generated by a piston (Col.7, lines: 10-25).

In reference to claim 25, Usenko teaches wherein the pressure is applied locally on the plane face (Fig.13A (33).

In reference to claim 26, Usenko teaches wherein the pressure is applied uniformly on the plane face (Fig.14A (142).

In reference to claim 27, Usenko teaches also comprising bonding of a thickener onto the plane face, after implantation of the gaseous compounds (Col.6, lines: 45-55).

In reference to claim 28, Usenko teaches wherein the thickener is composed of water (Col.6, lines: 45-55).

In reference to claim 29, Usenko teaches wherein the wafer is bonded by molecular bonding with the plane face (Col.2, lines: 45-50).



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In reference to claim 30, Usenko teaches wherein the thickener is formed by deposition of one or several materials 9Col.4, lines: 1-15).

In reference to claim 31, Usenko teaches wherein the pressure is applied though the thickener (Col.4, lines: 1-15).

In reference to claim 32, Usenko teaches wherein the pressure is adjusted during the coalescence of at least part of the micro-cavities, to remain slightly above a pressure called the limiting pressure, below which blisters appear on the place face above which blisters do not appear on the plane face (Col.4, lines: 24-35).

In reference to claim 33, Usenko teaches wherein coalescence is performed such that the thin film is separated form the rest of the substrate by pulling them apart (Col.7, lines: 10-25).

In reference to claim 34, Usenko teaches wherein the thin film is separated from the rest of the substrate by application of a heat treatment and optionally by mechanical forces (Col.6, lines: 10-30).

In reference to claim 35, Usenko teaches wherein the substrate used as the initial substrate is a substrate that has already been used to produce a thin film according to the process (Col.4, lines: 1-13).



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In reference to claim 36, Usenko teaches wherein the previously used substrate is polished to provide a new face plane (Col.4, lines: 1-15).

In reference to claim 37, Usenko teaches wherein the substrate supports one or several homogeneous and/or heterogeneous layers on the side having the plane face (Col.4, lines: 1-13).

In reference to claim 38, Usenko teaches wherein the substrate comprises a semiconductor material at least one the side having the plane face (Col.4, lines: 15-25).

In reference to claim 39, Usenko teaches wherein the substrate comprises all or part of at least one electronic device and/or at least one electro-optical device on the side having the plane face (Col.3, lines: 1-10).

In reference to claim 40, Usenko teaches wherein the separation of the thin film is delayed by the application of an additional step that consists of applying an additional pressure onto the thin film (Col.7, lines: 15-25)

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M Schillinger whose telephone number is (703) 308-6425. The examiner can normally be reached on M-T, R-F 7:00-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W Whitehead, Jr. can be reached on (703) 308-4940. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

LMS May 2, 2003

CARL WHITEHEAD, JR.

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800